

## DETAILED ACTION

### *Response to Arguments*

1. Applicant's arguments, see response, filed 24 September 2008, with respect to the rejection(s) of claim(s) 1, 3-8, 10-15 and 17-19 under 35 USC §102(e) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made below.

### *Claim Rejections - 35 USC § 112*

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1, 3-8, 10-15 and 17-19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

#### **[claims 1, 3-8, 10-15 and 17-19]**

4. Claims 1, 3-8, 10-15 and 17-19 recite a matrix equation

$$\begin{bmatrix} R \\ G \\ B \end{bmatrix} = \begin{bmatrix} 1 - mk_{12} - nk_{13} & ok_{12} & pk_{12} \\ qk_{12} & 1 - rk_{22} - sk_{23} & lk_{22} \\ wk_{12} & vk_{22} & 1 - wk_{12} - sk_{12} \end{bmatrix} \begin{bmatrix} R_o \\ G_o \\ B_o \end{bmatrix}$$

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including coefficients m, n, o, p, q, r, s, t, u, v, w and x which "denote the number of times a certain color is included in the group of adjacent pixels immediately surrounding the first pixel". The specification on page 5 describes a similar equation (equation 4). However, equation 4 as described in the specification

$$\begin{bmatrix} R \\ G \\ B \end{bmatrix} = \begin{bmatrix} 1-4k_{rg}-4k_{rb} & 4k_{rg} & 4k_{rb} \\ 2k_{rg} & 1-2k_{rb}-2k_{rg} & 2k_{rb} \\ 4k_{rb} & 4k_{rg} & 1-4k_{rg}-4k_{rb} \end{bmatrix} \cdot \begin{bmatrix} R_0 \\ G_0 \\ B_0 \end{bmatrix}$$

does not include such coefficients as claimed. While the specification does state that different color filter patterns and embodiments may be used (e.g. page 4, lines 1-3 and page 8, lines 9-14), there is no disclosure describing how equation 4 should be modified when used with a different color filter pattern. Furthermore, there is no description stating that the numbers used in equation 4 of the specification are set according to the number of times that certain colors are included in the group of adjacent pixels immediately surrounding a first pixel. Therefore, it is unclear that Applicant had possession of the invention as claimed where coefficients are set according to a number of times a certain color is included in the group of adjacent pixels immediately surrounding a first pixel (see MPEP §2163.02). It is further unclear whether Applicant had possession of a more generic invention as claimed than is described in the specification, i.e. determining a crosstalk correction equation for any color filter pattern by changing equation 4 with coefficients m, n... x dependent on the color filter array pattern (see MPEP §2163.05).

### ***Claim Objections***

5. Claims 1, 8 and 15 are objected to because of the following informalities: replace  $k_{bg}$ ,  $k_{br}$  and  $k_{gb}$  with  $k_{bg}$ ,  $k_{br}$  and  $k_{gb}$  respectively to ensure consistency between the claimed equation and definition of variables. Further replace  $R_a$  with  $R_o$  in the claimed equations. Appropriate correction is required.

### ***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J. Henn whose telephone number is (571)272-7310. The examiner can normally be reached on M-F 11-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on (571) 272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/Timothy J Henn/

Examiner, Temporary Full Signatory Authority, Art Unit 2622